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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/084,704	02/26/2002	Gabor Devenyi	01W120	6376
7590 11/30/2005			EXAMINER	
Raytheon Company HANSEN, COLB			COLBY M	
Bldg. EO/E01/E	E150			
2000 East El Segundo Boulevard			ART UNIT	PAPER NUMBER
P.O. Box 902			3682	
El Segundo, CA 90245			DATE MAILED: 11/30/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/084,704	DEVENYI, GABOR				
Office Action Summary	Examiner	Art Unit				
-	Colby Hansen	3682				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nety filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 11 A	pril 2005.					
2a) ☐ This action is FINAL. 2b) ☑ This	This action is FINAL. 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
<ul> <li>4)  Claim(s) 1-15 and 17-21 is/are pending in the 4a) Of the above claim(s) is/are withdray</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 1-15 and 17-21 is/are rejected.</li> <li>7)  Claim(s) is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or</li> </ul>	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examine	er.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119	•					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received.  Its have been received in Applicationity documents have been received  Its have been received in Applicationity documents have been received.	on No ed in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date</li> </ul>	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate Patent Application (PTO-152)				

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### **DETAILED ACTION**

In view of the arguments filed on 4/11/2005, PROSECUTION IS HEREBY REOPENED. A new rejection is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
  - (2) request reinstatement of the appeal.

If reinstatement of the appeal is requested, such request must be accompanied by a supplemental appeal brief, but no new amendments, affidavits (37 CFR 1.130, 1.131 or 1.132) or other evidence are permitted. See 37 CFR 1.193(b)(2).

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3, 5, 8-10, and 18-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Schwanz et al (US Pat. 4,227,426).

Schwanz et al (US Pat. 4,227,426) discloses a leadscrew assembly comprising:

A leadscrew 1 comprising:

a cylindrical elongated shaft having an outer lateral surface and a rotational axis, and

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a leadscrew thread 3;

a hollow drive nut housing 6 comprising;

a nut bore having an unthreaded inner surface with the leadscrew being inserted through the nut bore, the nut bore being sized such that the leadscrew may rotate therein about the rotational axis, and

a spring pin 7 affixed to the drive nut housing and spanning across the nut bore to engage the leadscrew thread;

the spring pin 7 has a first end, a central portion, and a second end, and wherein the first end and the second end are each affixed to the drive nut housing (at the end of slots 10);

the first spring pin retainer and the second spring pin retainer each comprise openings in the drive nut housing (at the end of slots 10);

a motor 5 that rotationally drives the leadscrew;

and a linear slide mechanism to which the drive nut housing is engaged (inherent, otherwise the nut would merely turn with the leadscrew).

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 6 & 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schwanz et al (US Pat. 4,227,426).

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Schwanz et al (US Pat. 4,227,426) discloses the claimed invention except for the spring pin 7 arcing over the leadscrew. Since it has not been disclosed why such a feature is mechanically pertinent, it is considered to be a matter of obvious design choice and would have been obvious to one having ordinary skill in the art at the time the invention was made to have made Schwanz et al (US Pat. 4,227,426) to be in arcing engagement with the leadscrew so as to increase surface area contact, thereby allowing for greater force transfer through the engagement.

Claims 2, 4, and 12-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schwanz et al (US Pat. 4,227,426) in view of Devenyi (US Pat. 5,636,549).

Schwanz et al (US Pat. 4,227,426) discloses the claimed invention except it does not disclose the leadscrew comprising circular thread wire helically wrapped in spaced-apart turns with a spacer wire upon the lateral surface and affixed to the elongated shaft.

Devenyi (US Pat. 5,636,549) discloses a leadscrew comprising an elongated shaft having an outer lateral surface and a rotational axis, and a leadscrew thread comprising a thread wire helically wrapped in spaced-apart turns upon the lateral surface and affixed to the elongated shaft; a spacer wire having a size smaller than that of the thread wire and helically interwrapped about the elongated shaft with the thread wire; a thread wire that has a circular cross section.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have utilized the helical wire thread of Devenyi (US Pat. 5,636,549) within Schwanz et al (US Pat. 4,227,426) so as to form a hard, smooth thread comprising a wear-resistant running surface for engagement with a bearing nut member as suggested by Devenyi (US Pat. 5,636,549).

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Claims 11 & 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schwanz et al (US Pat. 4,227,426) in view of Pan (US Pat. 6,459,844).

Schwanz et al (US Pat. 4,227,426) discloses the claimed invention except for an optical filter supported on the linear slide mechanism.

Pan discloses an optical filter supported on a linear slide apparatus.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have utilized the optical filter mechanism of Pan within Schwanz et al (US Pat. 4,227,426) so as to sustain an accurate positioning of a slide assembly over a substantial time, as suggested by Pan.

Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Schwanz et al (US Pat. 4,227,426) in view of Devenyi (US Pat. 5,636,549), as applied to claims 2, 4, and 12 above, further in view of Pan (US Pat. 6,459,844).

Schwanz et al (US Pat. 4,227,426) discloses the claimed invention except for an optical filter supported on the linear slide mechanism.

Pan discloses an optical filter supported on a linear slide apparatus.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have utilized the optical filter mechanism of Pan within Schwanz et al (US Pat. 4,227,426) so as to sustain an accurate positioning of a slide assembly over a substantial time, as suggested by Pan.

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## FACSIMILE TRANSMISSION

Submission of your response by facsimile transmission is encouraged. Group 3600's facsimile number is (703) 305-3597. Recognizing the fact that reducing cycle time in the processing and examination of patent applications will effectively increase a patent's term, it is to your benefit to submit responses by facsimile transmission whenever permissible. Such submission will place the response directly in our examining group's hands and will eliminate Post Office processing and delivery time as well as the PTO's mail room processing and delivery time. For a complete list of correspondence not permitted by facsimile transmission, see MPEP 502.01. In general, most responses and/or amendments not requiring a fee, as well as those requiring a fee but charging such fee to a deposit account, can be submitted by facsimile transmission. Responses requiring a fee which applicant is paying by check should not be submitting by facsimile transmission separately from the check.

Responses submitted by facsimile transmission should include a Certificate of Transmission (MPEP 512). The following is an example of the format the certification might take:

I hereby certify that this correspondence is being facsimile transmitted to the Patent and
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(Signature)

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### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Colby Hansen whose telephone number is (571) 272-7105. The examiner can normally be reached on Monday through Thursday and every other Friday from 7:30 PM to 5:00 PM (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bucci, can be reached on (571) 272-7099. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group

Colby M. Hansen

receptionist whose telephone number is (703) 308-2168.

Patent Examiner

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3600